

Claims

1. Disinfectants for the control and inactivation of pathogenic germs, to be applied to surfaces and instruments of medical and technical establishments as well as in contaminated fluids, on the basis of a synergistically effective mixture of mono, di, and trihydroxybenzoic acids and phenols, that may contain anionic and nonionic surfactants as wetting agents, hydrotropic agents, primary and secondary alcohols as solvents, and aliphatic carboxylic acids and hydroxycarboxylic acids as pH regulators as well as sequestering agents

characterized in that

a) they may contain synergistically effective microbicidal and antiviral combinations of aromatic monohydroxycarboxylic acids such as 2-, 3-, or 4-hydroxybenzoic acid, the dihydroxybenzoic acids 2,3-, 2,4-, 2,5-, 2,6-, 3,4-, and 3,5-dihydroxybenzoic acid, or the trihydroxybenzoic acids 2,3,4-trihydroxybenzoic acid, 2,4,6-trihydroxybenzoic acid, or 3,4,5-trihydroxybenzoic acid individually or mixed, and phenols such as 2-isopropyl-5-methylphenol; 2-, 3-, or 4-methylphenol, hexylresorcinol, 2-phenylphenol, 2-methoxyphenol, 3-methyl-4-chlorophenol, 3,5-dimethyl-4-chlorophenol, 2-benzyl-4-chlorophenol individually or mixed, in combination with alkyl sulfonates and/or alkyl aryl sulfonic acid and/or alkyl aryl sulfonates and/or alkyl aryl ether sulfates with 1 to 3 EO groups and/or alkyl ether sulfates with 1 to 3 EO groups their sodium, potassium and ammonium salts with primary or branched chains having a length of C₈ to C₁₈ as anionic surfactants, as well as nonionogenic surfactants of the type of alkyl polyethyleneglycol ethers with 3 to 11 EO groups.

b) they may contain butyl monoglycol sulfate, cumenesulfonate, toluenesulfonate, xylenesulfonate as the sodium, potassium, or ammonium salt individually or as a mixture as hydrotropic agents, and aliphatic alcohols and/or glycols having a chain length of C₂ to C₁₂ individually or as a mixture as solvents, and aliphatic carboxylic and/or hydroxycarboxylic acids having a chain length of C₁ to C₆ individually or as a mixture as pH regulators.

2. Disinfectants according to claim 1, characterized in that the weight ratio of the hydroxybenzoic acids (A) to the phenols (B) may be between 1 : 9 and 9 : 1, and their sum between 5 and 40 % by weight, referred to the total weight of the concentrated disinfectant formula.

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3. Disinfectants according to claim 1 and 2, characterized in that the weight ratio of the alkyl sulfonates and/or alkyl aryl sulfates and/or ether sulfates and their salts (C) to the acids and phenols (A + B), $C : (B + A)$, can be between 1 : 9 and 9 : 1, and their sum between 10 and 60 %, referred to the total weight of the concentrated disinfectant formula.

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4. Disinfectants according to claim 1, characterized in that the weight ratio of the hydrotropic agents and their salts, individually or in their mixture, can be between 5 and 40 % by weight, referred to the total weight of the concentrated disinfectant formula.

- 15 5. Disinfectants according to claim 1, characterized in that the weight ratio of the alcohols, individually or in their mixture, can be between 5 and 60 % by weight, referred to the total weight of the concentrated disinfectant formula.

- 20 6. Disinfectants according to claim 1, characterized in that they may contain between 1 and 8 % by weight of one or several sequestering agents of the type of aminoacetic acids or phosphonic acids and their derivatives.

7. Use of the disinfectants according to any one of claims 1 to 6 for fighting pathogenic agents in the environment of medical and technical establishments.

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8. Use of the disinfectants according to any one of claims 1 to 6 in aqueous, dilute solutions that may contain between 0.5 and 10 % by weight of the concentrated disinfectant formula.